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National Environmental/Energy Workforce Assessment. Radiation Programs

National Field Research Center, Inc, Iowa City, IA

Prepared for

Environmental Protection Agency, Washington, DC Office of Research and Development

Aug 79

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NATIONAL
ENVIRONMENTAL/ENERGY
WORKFORCE ASSESSMENT
PHASE III

RADIATION PROGRAMS

1979

Conducted by:
NATIONAL FIELD RESEARCH CENTER, INC.

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16. ABSTRACT

This directory, one of 18 volumes in Phase III of the National Environmental/Energy Workforce Assessment, provides information on post-secondary environmental education programs in the United States. Structured around information requests mailed to post-secondary education institutions, the directory provides the name and address of each institution listed, a contact person at each institution, the academic program title, and the degree offered at the institution (2-year, 4-year, etc.).

Phase III includes twelve such directories of post-secondary programs: One each for air, noise, pesticides & toxicology, potable water, wastewater, radiation, solid waste, and energy; one for combined water/wastewater programs; and a composite volume on each of the three areas of environmental engineering/technology, environmental science/health, and environmental studies. In addition, Phase III includes the following six volumes: Environmental Employment in Public Service Jobs Programs -- An Analysis of CETA Title VI FY 78 Projects; Salaries & Attendant Problems of Public Sector Environmental Employment; The Role of CETA in Direct Training and Employment; Private Sector Training Activities; Problems in Environmental Education & Training; and the Workforce Planning Bibliography.

Phase I of the Assessment evaluated workforce needs for pollution control and abatement in the U.S. during 1976-81. Phase II gathered data on training and educational programs in the post-secondary environmental education field as of 1978.

17. KEY WORDS AND DOCUMENT ANALYSIS

a. DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group
Radiation, Manpower, Environmental Engineering, Environmental Health, Environmental Education, Environmental Protection, Pollution Control, Instruction, Schools, Education, Ecology, Labor Force, Employment, Environmental Sciences, Environment	Directory of Post-Secondary Environmental Education	05/I, 05/D

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Conducted by:

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1979

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INTRODUCTORY NOTE

The National Environmental/Energy Workforce Assessment, Phase III, was conducted by National Field Research Center, Inc., with main offices in Iowa City, Iowa. The following personnel have had primary responsibility for the development of the project reports.

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The volumes of post-secondary environmental and energy programs were developed under the auspices and guidance of the U.S. Environmental Protection Agency, by the National Field Research Center, Inc. as part of the NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT, PHASE III. Sincere appreciation is extended to the many individuals and institutions who assisted in the identification and description of the programs, thus generously contributing to the success of this national project. Of particular importance are those individuals identified as contact persons in the program entries.

A special word of appreciation is extended to Mr. J. Donald Cook, Chief, Workforce Coordination Team, U.S. Environmental Protection Agency, Washington, D.C., and to the Manpower Officers and Workforce Coordinators from each of the U.S. Environmental Protection Agency Regional Offices.

PREFACE

This volume includes all identified post-secondary education and/or training programs which have been selected as pertinent to one media-specific area (i.e., air, wastewater, etc.). For ease of handling, the programs are presented in alphabetical order according to the name of the institution. The Appendix, however, presents a listing of the institutions by state, with reference to page numbers.

This portion of the NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT, Phase III, was conducted for the U.S. Environmental Protection Agency, by the National Field Research Center, Inc. with offices located in Iowa City, Iowa; Atlanta, Georgia; Denver, Colorado; and Washington, D.C.

FOREWORD

Information for this portion of the NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT, Phase III, was compiled through extensive review of catalogues from post-secondary education institutions listed in Post-Secondary Education, Education Directory, Colleges & Universities, 1976-77. All program entries were sent to the institutions for review and correction. In most cases, the program entries were returned after being reviewed. Those entries which were not returned have been indicated by an asterisk in front of the program title.

This twelve-volume report contains program entries from junior colleges, vocational/technical training institutes, community colleges, four-year colleges, and universities, as well as other training institutions. Programs are representative of all levels, from academic certification through doctoral degrees. The environmental pollution control areas of air, noise, pesticides, potable water, radiation, solid waste, wastewater and energy were surveyed. In addition, some programs which were not readily categorized

into media-specific areas (i.e., radiation, air, etc.) or which represented multiple media areas in curricula content, have been presented under the title of composite.

Readers are advised that material from the Acknowledgement through the Project Methodology is identical in all twelve program volumes. The reason for such duplication rests with the division of volumes into media specific areas, which increases probability that individuals will only read a given volume of special interest.

Readers are further advised that the purpose of these volumes is to point the direction for further information. Courses, programs and individuals are all subject to change over a given period of time. The inclusion of a specific program does not assure that the program is conducted every year nor does it assure that graduates meet specialized occupational requirements. Readers with specific questions should correspond directly with contact persons.

PROJECT BACKGROUND

The NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT, conducted by the National Field Research Center under the direction of the U.S. Environmental Protection Agency, is an effort to meet the national concern for the preservation and conservation of our country's resources. The project was developed as a multi-phase direct inquiry into the availability and readiness of our environmental workforce.

In keeping with the objective of the assessment, this national effort was directed at environmental/energy workforce requirements, national environmental education preparedness, and the functional relationship between the two.

Phase I of the NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT focused upon the development of "workforce demand projections" through 1982 for all public environmental agencies. This on-site assessment, which was carried out in all 50 states, Puerto Rico and the Virgin Islands, culminated in a numerical profile of the growth patterns and workforce needs at national and state levels. Stratification of the overall definition of "environmental occupation" into seven

distinct vocational areas enhanced even further the applicability of the results. In addition to this public sector workforce assessment, Phase I included an overview analysis of private sector needs and a brief review of selected environmental educational programs.

Phase II of the NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT was structured around an intensive on-site inventory of representative environmental educational offerings on a national scale. The primary objective of this portion of the project was to collect and aggregate data on training and educational programs in both the post-secondary education field and in the private sector and to do so by environmental area. Specifically, the study was designed to provide an overview of environmentally related post-secondary education programs, their program structures, representative course offerings, employment history of the graduates, and the faculty structures. Additionally, information was collected on program requirements and program projections regarding faculty and students.

Phase III of the NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT was completed in mid-1979. In an effort to draw together the relationship between Phase I and Phase II

of the project, several major areas were selected and monographs developed. In an effort to assist Federal and State planners, an environmental/energy manpower bibliography was developed and annotated. A final portion of the Phase III involved the identification of all environmental/energy post-secondary education programs as compared to the Phase I and Phase II which presented representative programs. This compendium of post-secondary environmental/energy programs was presented in media-specific volumes (i.e., Air, Potable Water, Solid Waste, etc.). While more extensive research may be advisable, it is anticipated that the NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT in its entirety represents the most comprehensive research effort to date regarding environmental/energy workforce requirements and the educational community's ability to meet these needs.

PROJECT METHODOLOGY

The NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT, Phase III, includes several components, one of which is made up of the directories of post-secondary environmental/ energy programs. Utilizing the Post-Secondary Education, Education Directory, Colleges and Universities, 1976-77, requests were made of the 3,075 institutions and in addition any new institutions which could be identified. All environmental programs were categorized according to media areas, i.e., air, water, radiation, etc. The program entry information was sent to the contact person for corrections, deletions and general review. The contact persons were requested to return the reviewed information to project personnel. In the majority of cases, the information was returned by the institutions. Those program entries which were not returned have been indicated with an asterisk in front of the program title.

In total, 1,359 programs are presented in these volumes. All 50 states, the District of Columbia, Puerto Rico and the Virgin Islands are represented in the program entries. The introductions of each

volume present the details of selection criteria, geographic location, etc., of the programs presented in that specific environmental area.

The directories have been prepared by media specific area. The volumes which make up this portion of the project are:

* AIR
* NOISE
* PESTICIDES & TOXICOLOGY
* POTABLE WATER
* WASTEWATER
* WATER/WASTEWATER
* RADIATION
* SOLID WASTE
* ENERGY
* COMPOSITE: Environmental Engineering/Technology
* COMPOSITE: Environmental Science/Health
* COMPOSITE: Environmental Studies

INTRODUCTION

This report describes radiation education/training programs which are currently being conducted in 23 states and one territory. In total there are 39 program entries included in this volume.

Although the report attempts to concentrate mainly on radiation protection programs, aspects of technologies, engineering, and public health are included. The criteria for selection of a program included at least three (preferably more) radiation courses required for program completion. Overall, the following types of programs were included: health physics; radiation health and safety; radiological health; nuclear or radiological waste management; and, radiological technician.

Those programs which are herein differentiated by the addition of an asterisk in front of the program title, were submitted to the institution for review but were not returned to project personnel. Of the total 39 programs, five or 13% were not returned.

Geographical identification of the program entries illustrates that 18 of the programs (46%) are currently being conducted in eight southeastern states, while an additional nine programs (23%) are on-going in five southwestern states. In total

69% of the programs are located in the south-eastern and southwestern states. The northern areas of the country currently are administering the remaining 31%. Four programs (10%) have been identified in three northwestern states, while eight programs (21%) have been identified as on-going in seven northeastern states.

The following table illustrates the dispersion of degrees among the entries in this volume.

TABLE I

RADIATION PROGRAMS: Number & Types of Degrees

Degree Level	No. of Programs	% of Total
Certificate	4	10.25%
Certificate; Four-Year; Graduate	1	2.6 %
One-Year	0	0
Two-Year	5	12.8 %
Two-Year; Four-Year	3	7.6 %
Four-Year	4	10.35%
Four-Year; Graduate	8	20.5 %
Graduate	14	35.9 %
TOTAL	39	100%

The majority of the program entries (34) in this volume are currently being conducted at four-year institutions, while the remaining five programs are on-going at two-year educational institutions. It is noted in Table I, that 36% of the programs are graduate level while an additional 20% are baccalaureate and graduate level programs. If those programs which are identified as four-year programs (10%) are added, a total of 61% of the radiation programs are currently being conducted at the bachelors and graduate level.

The following program entries are presented in alphabetical order in accordance with the institution name. For a listing of radiation programs by state location, the reader is referred to the Appendix.

PROGRAMS, ALPHABETIZED BY INSTITUTION

CENTRAL FLORIDA COMMUNITY COLLEGE

P.O. Box 1388
Ocala, Florida 32670

Catalog Year
1977-78

contact person:
Mr. Frank Holland
Professor
(904) 237-2111

program title: **Radiological Health Technology**
department: **Radiological Health Technology**
degree: **2 year**

CHATTANOOGA STATE TECHNICAL COMMUNITY COLLEGE

4501 Amnicola Highway
Chattanooga, Tennessee 37406

Catalog Year
1977-79

contact person:
Mr. Donald R. Stone
Associate Professor and Division Head
(615) 622-6262

program title: **Nuclear Technology**
emphases: **The detection, measurement and analysis of radiation**
department: **Division of Engineering Technologies**
degree: **2 year**

COLORADO STATE UNIVERSITY

Fort Collins, Colorado 80523

Catalog Year
1977-78

contact person:
Dr. M.R. Zelle
Chairperson
(303) 491-5222

program title: **Radiology**
emphasis: **Radiological Health**
department: **Radiology and Radiation Biology**
degree: **Graduate**

DUQUESNE UNIVERSITY

School of Pharmacy
Pittsburgh, Pennsylvania 15219

Catalog Year
1977-78

contact person:
Dr. Mitchell L. Borke
Chairperson
(412) 434-6375

program title: **Radiological Health**
department: **Radiological Health**
degree: **4 year**

GEORGIA INSTITUTE OF TECHNOLOGY

225 North Avenue, N.W.
Atlanta, Georgia 30332

Catalog Year:
1977-78

contact person:
Dr. Lynn E. Weaver
Director, School of Nuclear Engineering
(404) 894-3720

program title: Health Physics
department: School of Nuclear Engineering
degree: 4 Year
Graduate

HARTFORD STATE TECHNICAL COLLEGE

401 Flatbush Avenue
Hartford, Connecticut 06106

Catalog Year
1977-79

contact person:
Mr. Dale Robinson
Professor
(203) 527-4111

*program title: Chemical Technology
emphasis: Nuclear Engineering Technology, Air Pollution Chemistry, Radiological Health and Safety, Environmental Chemistry (Chemical Technology), Radiation Safety, Health Physics
department: Nuclear Technology
degree: 2 Year

IDAHO STATE UNIVERSITY

Pocatello, Idaho 83209

Catalog Year:
1975-77

contact person:
Dr. Albert E. Wilson , Dean
School of Engineering
(208) 236-3620

program title: **Radiation Protection Technology**
department: **School of Engineering**
degree: **Certificate**

LOUISIANA STATE UNIVERSITY

Nuclear Science Center
Baton Rouge, Louisiana 70803

Catalog Year:
1977-78

contact person:
Dr. Edward N. Lambremont
Professor of Nuclear Science and
Director Nuclear Science Center
(504) 388-2163

program title: **Nuclear Science option**
department: **Engineering, Industrial Technology**
degree: **Certificate**
4 Year
Graduate

comments: **Short courses in Health Physics, Radiography, Energy and others.**

MEDICAL COLLEGE OF GEORGIA

1120 15th Street
Augusta, Georgia 30901

Catalog Year
1975-77

contact person:
Mr. Cecil H. Hall, Professor & Chairperson
Radiological Technologies
(404) 828-3691

program title: **Radiological Technologies**
emphasis: **Nuclear medicine, radiologic technology**
department: **School of Allied Health Sciences**
degree: **2 year**
4 year

MEMPHIS STATE UNIVERSITY

Memphis, Tennessee 38152

Catalog Year
1977-78

contact person:
Dr. D.W. Jones, Director
Center for Nuclear Studies
(901) 454-2687

program title: **Radiation Technician Training Course**
department: **Center for Nuclear Studies**
degree: **Certificate**

MIDDLE TENNESSEE STATE UNIVERSITY

Murfreesboro, Tennessee 37132

Catalog Year
1976-77

contact person:
Dr. J. Eldred Wiser, Chairperson
Department of Chemistry/Physics
(615) 898-2958

program title: **Undesignated**
emphasis: **Health Physics, Radiation protection & dosimetry**
department: **Chemistry and Physics**
degree: **4 year**

OAK RIDGE ASSOCIATED UNIVERSITIES

P.O. Box 117
Oak Ridge, Tennessee 37830

Catalog Year
1977

contact person:
Mr. Roger Cloutier
Professor
(615) 483-6352 ext. 263

program title: **Radiation Emergency Assistance Center/ Training Site**
emphasis: **Strategies for handling radiation accidents**
department: **Medical and Health Sciences Division**
degree: **Certificate**
comments: **A consortium of forty-three universities.**

OAK RIDGE ASSOCIATED UNIVERSITIES

P.O. Box 117
Oak Ridge, Tennessee 37830

Catalog Year
1977

contact person:
Mr. Roger Cloutier
Professor
(615) 483-6352 ext. 263

program title: Special Training
department: Manpower Education and Research Training Division
degree: Certificate
comments: A consortium of forty-three universities.

OKLAHOMA STATE UNIVERSITY

Stillwater, Oklahoma 74074

Catalog Year
1976-77

contact person:
Dr. Perry R. McNeill
Associate Professor and Head
(405) 624-5000

program title: Radiation and Nuclear Technology
department: Radiation and Nuclear Technology
degree: 4 year
comments: Graduates will be familiar with handling and use of radioactive materials and with measurements, instruments and techniques. Accredited by ECPD.

ORANGE COAST COLLEGE

2701 Fairview Road
Costa Mesa, California 92626

Catalog Year
1977-78

contact person:
Dr. Francis L. Andreen
Division Chairperson
(714) 556-5764

program title: Radiologic Technology
department: Division of Consumer and Health Science
degree: 2 year

OREGON STATE UNIVERSITY

Corvallis, Oregon 97331

Catalog Year
1977-78

contact person:
Dr. David L. Willis
Chairperson of the Department
(503) 754-4151

program title: General Sciences
department: General Sciences
degree: 4 year
Graduate

comments: The undergraduate major is in general science with options in biological science, physical science, or earth science. Graduate majors are biological science, physical science, earth science, radiation, biology, radiological physics, radiological health and history of science.

PURDUE UNIVERSITY

West Lafayette, Indiana 47907

Catalog Year
1976-78

contact person:
Dr. J. E. Christain, Head
Department of Bionucleonics
(317) 494-8537

program title: Health physics, Radiation biology, Environmental Health
department: Bionucleonics (Pharmacological Sciences)
degree: Graduate
comments: Department is responsible for administration of Trace Level Research Institute, Institute for Environmental Health Studies, University radiological control program, University program for safe use of human subjects for research.

QUEENS COLLEGE

1900 Sewlyn Avenue
Charlotte, North Carolina 28274

Catalog Year
1976-77

contact person:
Dr. Garrien Michael Floyd
Lecturer
(704) 332-7121

program title: Nuclear Medical Technology
department Nuclear Medical Technology
degree: 2 year
4 year

RUTGERS - THE STATE UNIVERSITY OF NEW JERSEY

Room 116, Doolittle Bldg.
Busch Campus
New Brunswick, New Jersey 08903

Catalog Year
1978-79

contact person:
Mr. F. Haughey, Director
Graduate Programs in Radiation Science
(201) 932-2582

program title: **Radiation Science**
emphasis: **Health physics, medical physics, radiological health, radiation science**
department: **Radiation Science**
degree: **Graduate**

SOUTHERN TECHNICAL INSTITUTE

534 Clay Street
Marietta, Georgia 30060

Catalog Year
1977-78

contact person:
Mr. Julian R. Lee
Assistant Professor, Physics
(404) 424-7371

program title: **Electrical Engineering Technology (Nuclear Safety Option)**
department: **Electrical Engineering Technology**
degree: **2 year**

STANFORD UNIVERSITY

Palo Alto, California 94305

Catalog Year
1977-78

contact person:
Dr. Malcom A. Bagshaw
Chairperson
(415) 497-2300

*program title: **Radiology**
department: **Radiology**
degree: **Graduate**
comments: **School of Medicine**

STATE UNIVERSITY OF NEW YORK AT BUFFALO

101 Cary Hall
Buffalo, New York 14214

Catalog Year
1976-78

contact person:
Mr. Charles E. Jeffrey
Acting Director
(716) 831-2803

* program title: **Environmental Biology**
emphasis: **Aquatic Biology; Botany; Environmental Biology; Physiology; Radiation Biology**
department: **Department of Biological Sciences Division of Biology (Environmental and Organismal)**
degree: **4 year**

TEXAS A & M UNIVERSITY

College Station, Texas 77843

Catalog Year
1977-78

contact person:
Dr. Robert Glenn Cochran, Professor
Nuclear Engineering and Head of Department
(713) 845-4331

program title: **Radiation Protection Engineering**
department: **Nuclear Engineering Department**
degree: **4 year**
Graduate

UNIVERSITY OF CALIFORNIA AT IRVINE

Irvine, California 92664

Catalog Year
1977-78

contact person:
Dr. Joie Pierce Jones
Director, Graduate Studies
(714) 833-5904 ext 274

program title: **Radiological Sciences**
emphasis: **Medical Imaging; Physics**
department: **Radiological Sciences**
degree: **Graduate**
comments: **M.S. and Ph.D. through the School of Medicine. The Department includes the disciplines of diagnostic radiology, radiotherapy, radiobiology, medical physics, radiological engineering, nuclear medicine and ultrasound.**

UNIVERSITY OF COLORADO MEDICAL CENTER

Denver, Colorado 80262

Catalog Year
1977-78

contact person:
Dr. William R. Hendee
Professor and Chairperson
(303) 394-7817

program title: **Radiological Sciences**
department: **Radiology**
degree: **Graduate**

UNIVERSITY OF FLORIDA

Gainesville, Florida 32611

Catalog Year
1977-78

contact person:
Dr. E.E. Pyatt, Chairperson
Department of Environmental Engineering Sciences
(904) 392-0841

program title: **Radiological Health**
department: **Environmental Engineering Sciences**
degree: **Graduate**

UNIVERSITY OF FLORIDA

Gainesville, Florida 32611

Catalog Year
1977-78

contact person:
Dr. Genevieve Roessler
Assistant Professor & Program Coordinator
(904) 392-1401

program title: **Radiological Sciences**
department: **Nuclear Engineering Sciences**
degree: **Graduate**
4 year

UNIVERSITY OF IDAHO

Moscow, Idaho 83843

Catalog Year
1978

contact person:
Dr. William P. Barnes
Dr. Kermit L. Holman, Chairpersons
Mechanical and Chemical Engineering
(208) 885-6579 or 885-6793

program title: **Radiological Science**
department: **Nuclear Engineering**
degree: **Graduate**
comments: **One of the educational programs conducted by the Idaho National Engineering Laboratory, Idaho Falls.**

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

Urbana, Illinois 61801

Catalog Year
1976-78

contact person:
Dr. George H. Miley
Chairperson
(217) 333-2294

program title: **Nuclear Engineering**
department: **Nuclear Engineering Program**
degree: **4 year**
Graduate

UNIVERSITY OF KANSAS

140 Nuclear Reactor Center
Lawrence, Kansas 66045

Catalog Year
1978

contact person:
Dr. Edward I. Shaw, Chairperson
Department of Radiation Biophysics
(913) 864-3867

program title: **Radiation Biophysics**
department: **Radiation Biophysics**
degree: **4 year**
Graduate

UNIVERSITY OF KENTUCKY

Lexington, Kentucky 40506

Catalog Year
1976-77

contact person:
Dr. Yosh Maruyama, Chairperson
Department of Radiation Medicine
(606) 258-9000

program title: **Radiation Medicine**
emphasis: **Radiation health & safety; medical radiation dosimetry**
department: **College of Medicine**
degree: **Graduate**

UNIVERSITY OF LOWELL

1 University Avenue
Lowell, Massachusetts 01854

Catalog Year
1976-78

contact person:
Dr. Jesse Y. Harris
Professor of Radiological Science
(617) 454-7811 ext. 546

*program title: **Radiological Health Physics/Radiological Sciences and Protection**
emphasis: **Radiation Safety and Control**
department: **Radiological Sciences**
degree: **4 year**
Graduate

UNIVERSITY OF MICHIGAN

School of Public Health
Ann Arbor, Michigan 48104

Catalog Year
1975-76

contact person:
Dr. G. Hoyt Whipple
Division of Radiological Health
(313) 764-0523

program title: **Radiological Health**
department: **Environmental & Industrial Health**
degree: **Graduate**

UNIVERSITY OF NEVADA AT LAS VEGAS

4505 Maryland Parkway
Las Vegas, Nevada 89154

Catalog Year
1977-78

contact person:
Dr. Mary Ann Michel, Dean
Allied Health Professions
(702) 739-3693

program title: **Allied Health**
department: **Allied Health Profession**
degree: **2 year**
4 year
comments: **The College of Allied Health Professions offer courses in radiation safety and environmental radioactivity.**

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

Chapel Hill, North Carolina 27514

Catalog Year
1977

contact person:
Dr. Russell F. Christman
Professor and Department Chairperson
(919) 966-1171

program title: Radiological Hygiene
department: Environmental Sciences and Engineering
School of Public Health
degree: Graduate

UNIVERSITY OF PITTSBURGH

Graduate School of Public Health
130 DeSoto Street
Pittsburgh, Pennsylvania 15261

Catalog Year
1977-79

contact person:
Dr. Joseph A. Watson
Professor of Radiobiology
(412) 624-2732

program title: Radiation Health
emphasis: Subspecialty Areas: Radiobiology, Health Physics, Radiation Chemistry, Environmental Radiation, Radiation Medicine, Radiological Physics, Radiological Engineering
department: Radiation Health
degree: Graduate

UNIVERSITY OF PUERTO RICO

Mayaguez Campus
Mayaguez, Puerto Rico 00708

Catalog Year
1977-78

contact person:
Dr. Flavio Acaron
Dean of Engineering
(809) 832-4040

*program title: **Radio-Chemistry**
Radio-Physics
department: **Engineering**
degree: **Graduate**

UNIVERSITY OF TENNESSEE

Knoxville, Tennessee 27916

Catalog Year
1976-77

contact person:
Dr. P. F. Pasqua, Head
Nuclear Engineering Department
(615) 974-2525

program title: **Undesignated**
emphasis: **Radiation protection courses**
department: **Nuclear Engineering**
degree: **4 year**
Graduate

UNIVERSITY OF WASHINGTON

Radiological Sciences SB-30
Seattle, Washington 98195

Catalog Year
1976-78

contact person:
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program title: **Radiological Science**
emphasis: **Options: Physical Science; Medical Radiation Physics; Environmental Science; Biological Science**
department: **Radiological Sciences Group of the Graduate School**
degree: **Graduate**
comments: **Interdisciplinary program**

APPENDIX
Programs, Listed by State

STATE	INSTITUTION	PAGE
CALIFORNIA	Orange Coast College	16
	Stanford University	19
	University of California at Irvine	20
COLORADO	Colorado State University	10
	University of Colorado Medical Center	21
CONNECTICUT	Hartford State Technical College	11
FLORIDA	Central Florida Community College	9
	University of Florida	21
	University of Florida	22
GEORGIA	Georgia Institute of Technology	11
	Medical College of Georgia	13
	Southern Technical Institute	18
IDAHO	Idaho State University	12
	University of Idaho	22
ILLINOIS	University of Illinois at Urbana-Champaign	23
INDIANA	Purdue University	17
KANSAS	University of Kansas	23
KENTUCKY	University of Kentucky	24
LOUISIANA	Louisiana State University	12
MASSACHUSETTS	University of Lowell	24
MICHIGAN	University of Michigan	25

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NEVADA	University of Nevada at Las Vegas	25
NEW JERSEY	Rutgers, The State University of New Jersey	18
NEW YORK	State University of New York at Buffalo	19
NORTH CAROLINA	Queens College	17
	University of North Carolina at Chapel Hill	26
OKLAHOMA	Oklahoma State University	15
OREGON	Oregon State University	16
PENNSYLVANIA	Duquesne University, School of Pharmacy	10
	University of Pittsburgh	26
PUERTO RICO	University of Puerto Rico	27
TENNESSEE	Chattanooga State Technical Community College	9
	Memphis State University	13
	Middle Tennessee State University	14
	Oak Ridge Associated Universities	14
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	University of Tennessee	27
TEXAS	Texas A & M University	20
WASHINGTON	University of Washington	28